

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus comprising an optical input device controlled by a moving object near a window and an optical keyboard, which input device comprises at least one optical sensor unit comprising a diode laser for supplying a measuring beam and converting means for converting measuring beam radiation reflected by the object into an electric signal, which converting means are constituted by the combination of a laser cavity and measuring means for measuring changes in operation of the laser cavity, which are due to interference of reflected measuring beam radiation re-entering the laser cavity and the optical wave in this cavity and which are representative of the movement of the object, ~~characterized in that the~~ wherein a path of the measuring beam from the diode laser to the window extends through a light guide of the

optical keyboard, said light path including at least three mirrors.

2. (Currently Amended) ~~An~~ The apparatus as claimed in claim 1, ~~characterized in that wherein~~ the input device comprises two sensor units, which are arranged relative to the optical keyboard such that the measuring beam of the first and second sensor unit passes on its way to the device window the positions of a first set of keys and the positions of a second set of keys, respectively, the first set and the second set together comprising all keys to be controlled.

3. (Currently Amended) ~~An~~ The apparatus as claimed in claim 1, ~~characterized in that wherein~~ the input device comprises three sensor units, which are arranged relative to the optical keyboard such that the measuring beam of the first, the second and the third sensor unit passes on its way to the device window the positions of a first, a second and a third set of keys, respectively, the first, second and third set comprising all keys to be controlled.

4. (Currently Amended) ~~An~~ The apparatus as claimed in claim 1,

~~characterized in that wherein~~ the input device comprises a sensor unit adapted to measure both a scroll movement and a click movement and provided with additional means, which allow establishing the presence of an object on the window of the device.

5. (Currently Amended) ~~An-The~~ apparatus as claimed in claim 4, ~~characterized in that wherein~~ the additional means are constituted by means for establishing whether the modulated measuring beam radiation shows an amplitude variation of a frequency lower than the frequencies of variations caused by a scroll movement.

6. (Currently Amended) ~~An-The~~ apparatus as claimed in claim 5, wherein the said sensor unit comprises a first radiation-sensitive detector for measuring variations in the laser cavity, ~~characterized in that wherein~~ the additional means is constituted by a second radiation-sensitive detector arranged for receiving measuring beam radiation, which is non-incident on the laser cavity.

7. (Currently Amended) ~~An-The~~ apparatus as claimed in claim 4,

~~characterized in that wherein~~ the additional means are constituted by electronic means for detecting ~~said a~~ component in the output signal of said measuring means.

8. (Currently Amended) ~~An The~~ apparatus as claimed in claim 4, wherein said sensor unit is activated by activation pulses and the measuring means perform measurements during time intervals determined by the activation pulses, ~~characterized in that wherein~~ the additional means comprises counting means and comparing means to establish whether the number of undulations in the output signal measured during a first and second half of a said time interval are equal.

9. (Currently Amended) ~~An The~~ apparatus as claimed in claim 1, ~~characterized in that wherein~~ the measuring means of the input device are means for measuring a variation of the impedance of the laser cavity.

10. (Currently Amended) ~~An The~~ apparatus as claimed in claim 1, ~~characterized in that wherein~~ the measuring means is a

radiation-sensitive detector for measuring radiation emitted by the laser.

11. (Currently Amended) ~~An~~ The apparatus as claimed in claim 5, ~~characterized in that wherein~~ the radiation-sensitive detector is arranged at the rear side of the laser cavity.

12. (Currently Amended) ~~An~~ The apparatus as claimed in claim 6, ~~characterized in that wherein~~ the second detector is arranged at the side of the laser cavity where the measuring beam is emitted.

13. (Currently Amended) ~~A mobile phone~~ The apparatus equipped with an integrated optical keyboard and optical input device as claimed in claim 1, wherein the apparatus is a mobile phone.

14. (Currently Amended) ~~A cordless phone~~ The apparatus equipped with an integrated optical keyboard and optical input device as claimed in claim 1, wherein the apparatus is a cordless phone.

15. (Currently Amended) ~~A laptop computer equipped with an integrated optical keyboard and optical input device~~ The apparatus as claimed in claim 1, wherein the apparatus is a laptop compute.

16. (Currently Amended) ~~A hand-held computer equipped with an integrated optical keyboard and optical input device~~ The apparatus as claimed in claim 1, wherein the apparatus is a hand-held computer.

17. (Currently Amended) ~~A keyboard for a desk computer equipped with an integrated optical keyboard and optical input device~~ The apparatus as claimed in claim 1, wherein the apparatus is a keyboard for a desk computer.

18. (Currently Amended) ~~A remote control for a TV set equipped with an integrated optical keyboard and optical input device~~ The apparatus as claimed in claim 1, wherein the apparatus is a remote control for a TV set.

19. (New) An apparatus having an optical input device

controlled by a moving object near a window, the optical input device comprising at least one optical sensor unit including a diode laser for supplying a measuring beam and converting means for converting a reflected beam reflected by the moving object into an electric signal, wherein a path of the measuring beam from the diode laser to the window includes at least three mirrors.

20.(New) An optical input device controllable by a moving object near a window, the optical input device comprising:

a diode laser for supplying a measuring beam for reflection from the moving object; and

a detector configured to convert a reflected beam reflected by the moving object into an electric signal, wherein a path of the measuring beam from the diode laser to the window includes at least three mirrors.